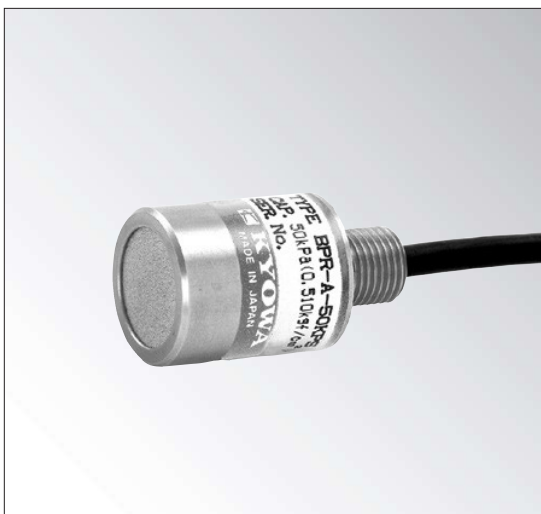


BPR-A-S

●Water pressure measurement ●50 to 200 kPa

Small-sized Pore Pressure Transducer



Suitable for model experiments, highly-sensitive, small levels of pore pressure.

- Small-size (20 mm diameter), small rated capacity (50 to 200 kPa) and high sensitivity (1 mV/V)
- Filters are stainless (Standard 10 μ m)

Featuring an outer diameter of 20 mm, the BPR-A-S series is highly sensitive transducers for measurement of small levels of pore pressure. A watertight design enables embedment applications and makes them suitable for model experiments.

To Ensure Safe Usage

For long-term measurement, it is recommended to separately measure temperature and atmospheric pressure for compensation of measured values.

Specifications

Performance

Rated Capacity	See table below.
Nonlinearity	Within $\pm 1\%$ RO (50KPS: Within $\pm 2\%$ RO)
Hysteresis	Within $\pm 1\%$ RO
Rated Output	0.4 mV/V or more (50KPS) 0.8 mV/V or more (100KPS) 1 mV/V or more (200KPS)

Environmental Characteristics

Safe Temperature	0 to 80°C (Non-freezing)
Compensated Temperature	0 to 70°C (Non-freezing)
Temperature Effect on Zero	Within $\pm 0.8\%$ RO/°C (50KPS) Within $\pm 0.4\%$ RO/°C (100KPS) Within $\pm 0.2\%$ RO/°C (200KPS)
Temperature Effect on Output	Within $\pm 0.1\%$ °C

Electrical Characteristics

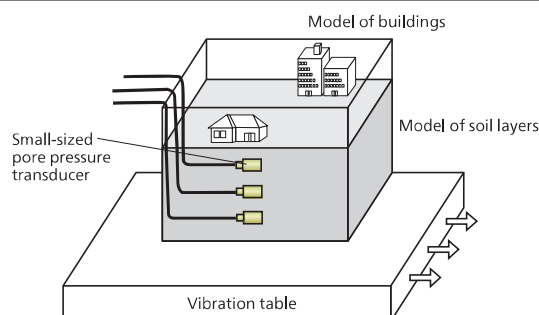
Safe Excitation	8 V AC or DC
Recommended Excitation	1 to 5 V AC or DC
Input Resistance	120 Ω $\pm 5\%$
Output Resistance	120 Ω $\pm 5\%$
Cable	4-conductor (0.08 mm ²) chloroprene shielded cable, 4 mm diameter by 10 m long, terminated with a connector plug PRC03-12A10-7M (Shield wire is not connected to the case.)

Mechanical Properties

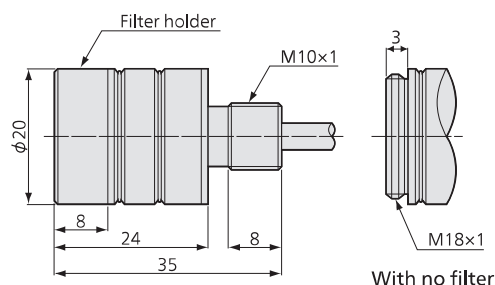
Safe Overloads	120%
Material	Stainless steel metallic finish
Degree of Protection	IP68 (IEC 60529) (Safe overloads)
Weight	Approx. 35 g

Models	Rated Capacity
BPR-A-50KPS	50 kPa
BPR-A-100KPS	100 kPa
BPR-A-200KPS	200 kPa

Application Example



Dimensions



- *Filter is thrust into the filter holder, which can be removed from the pressure sensor.
- *Flat filter only is usable and any cone filter cannot be used.